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ABSTRACT

A system, apparatus, and method for treating wastewater having bio-solids therein. The system includes a tank, a wastewater inlet line, an effluent discharge outlet line, and an aeration source. The tank has an upper aeration chamber and a lower clarification chamber separated by a common inclined partition having an opening defined therein. The inclined partition opens into the lower clarification chamber near a bottom of the tank which allows fluid communication between the upper aeration chamber and the lower clarification chamber. The bottom of the tank has a bio-sludge outlet for removal of settled bio-solids. The wastewater inlet line opens into the aeration chamber and an intake end of the effluent discharge outlet line is positioned within the clarification chamber. The aeration source is positioned within the aeration chamber to supply air to the wastewater within the aeration chamber. It is emphasized that this abstract is provided to comply with the rules requiring an abstract which will allow a searcher or other reader to quickly ascertain the subject matter of the technical disclosure. It is submitted with the understanding that it will not be used to interpret or limit the scope or meaning of the claims. 37 C.F.R. § 1.72(b).